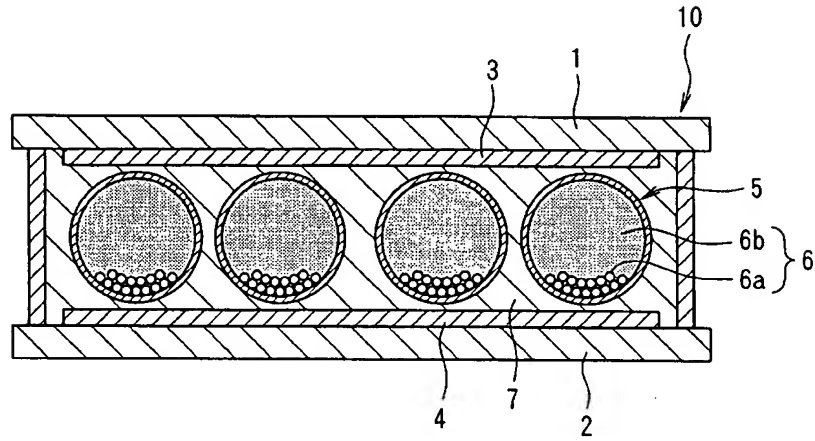




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FIG.1



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FIG.2A

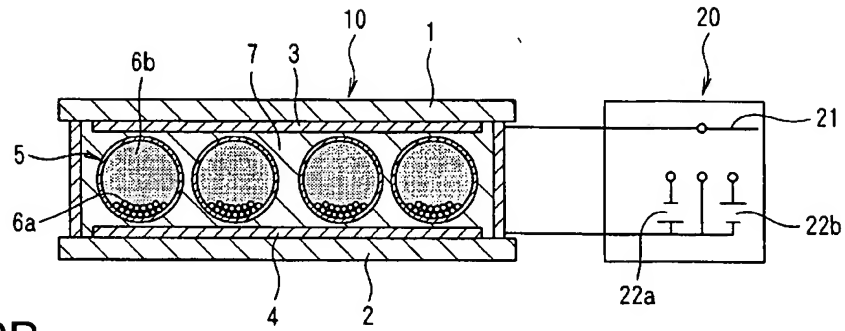


FIG.2B

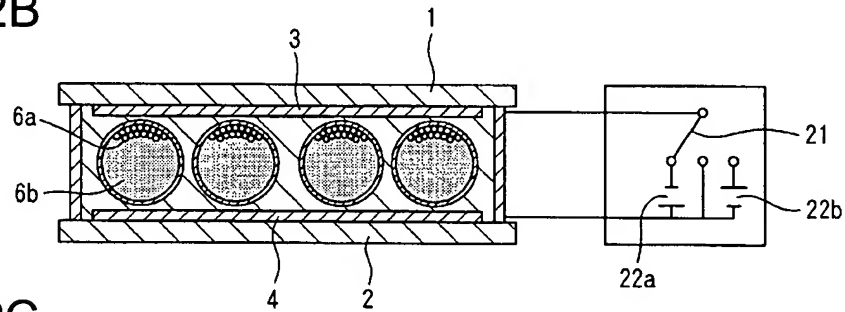


FIG.2C

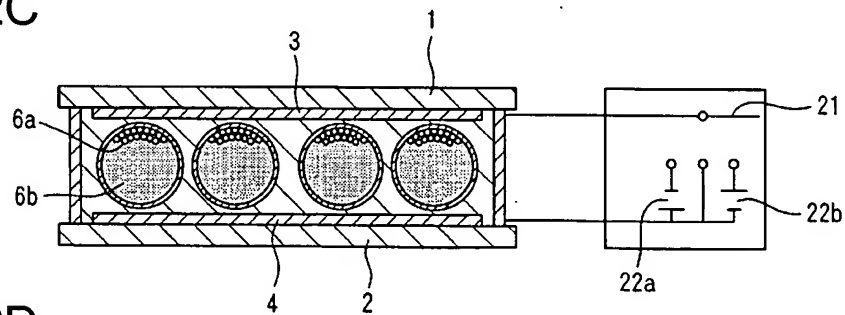
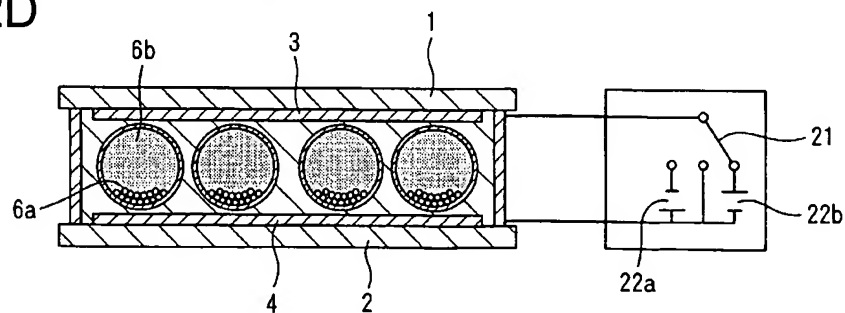


FIG.2D



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FIG.3

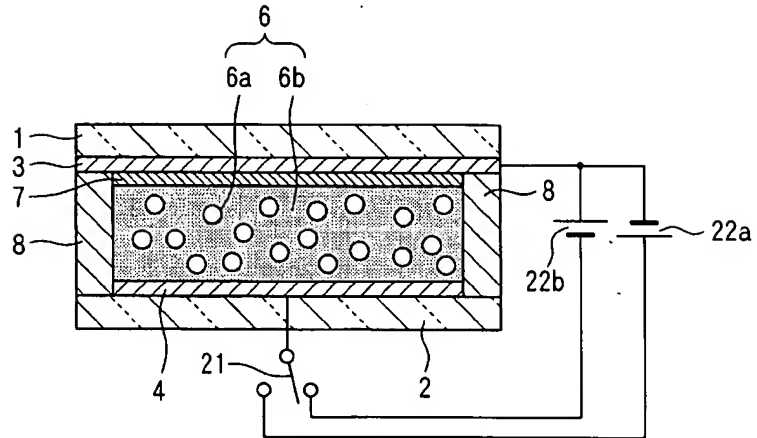
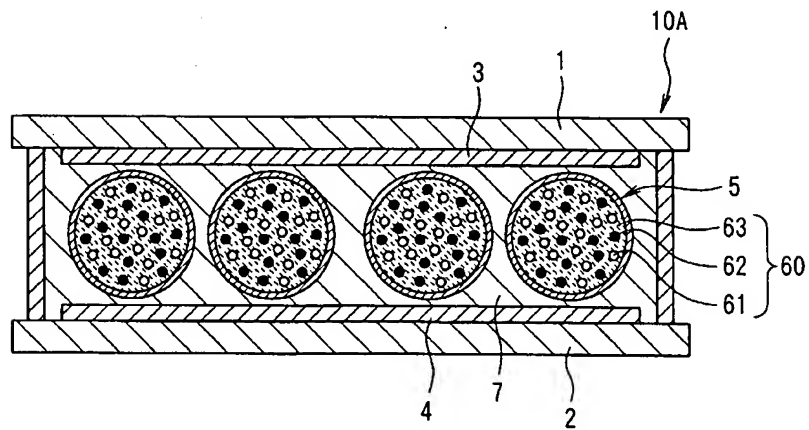


FIG.4



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FIG.5A

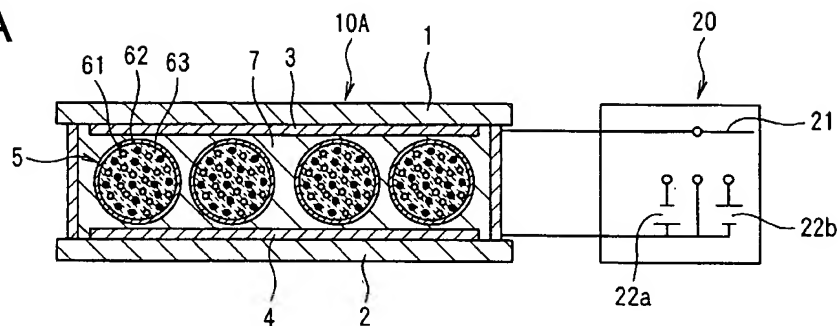


FIG.5B

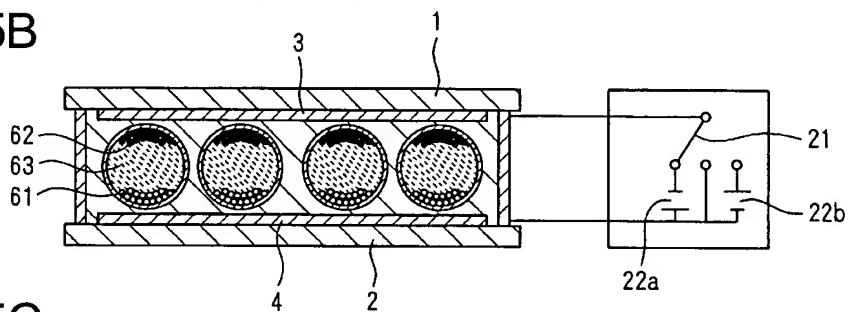


FIG.5C

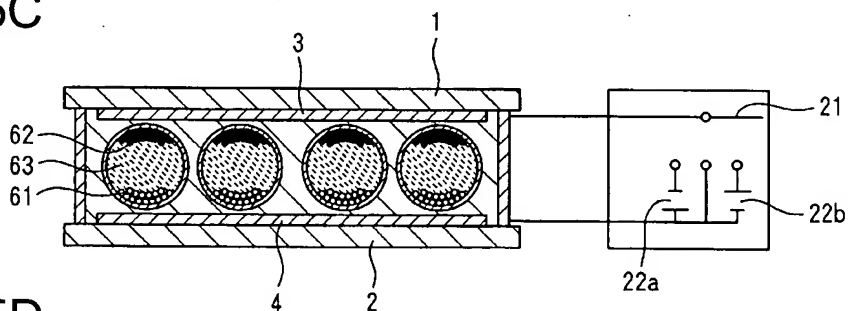
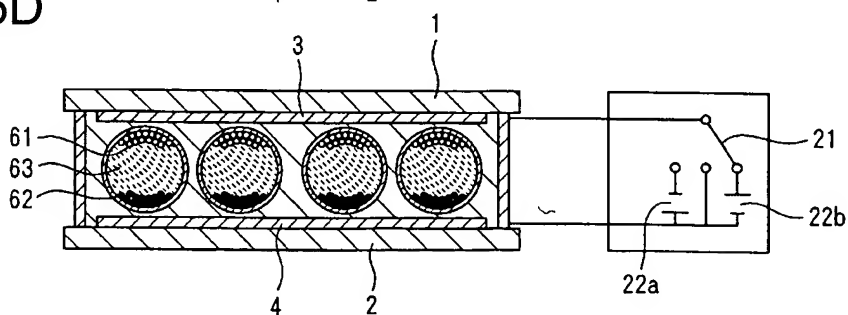


FIG.5D



This cross-sectional view shows a multi-layered substrate assembly 10B. It consists of a top layer 1, a middle layer 3, and a bottom layer 2. A central layer 4 is positioned between the middle layer 3 and the bottom layer 2. Four circular components 5 are arranged in a row within the central layer 4. Each component 5 has an outer shell 6a and an inner core 6b. The components are held in place by a top layer 1 and a bottom layer 2. A layer 71 is located between the top layer 1 and the middle layer 3, and a layer 72 is located between the middle layer 3 and the bottom layer 2. The entire assembly is shown in a cross-sectional view.

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FIG.8A

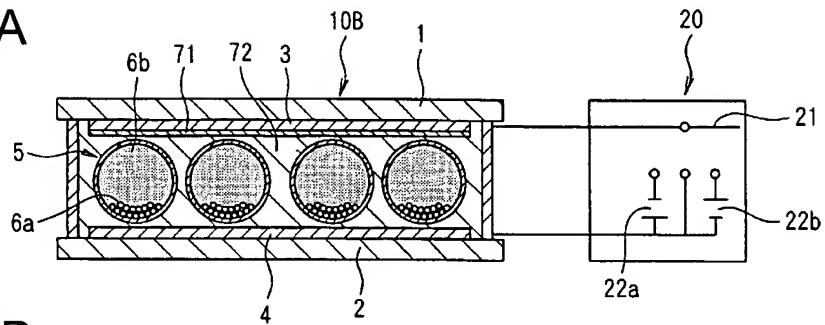


FIG.8B

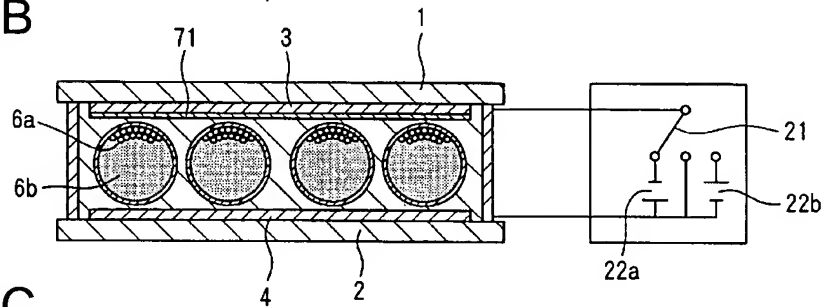


FIG.8C

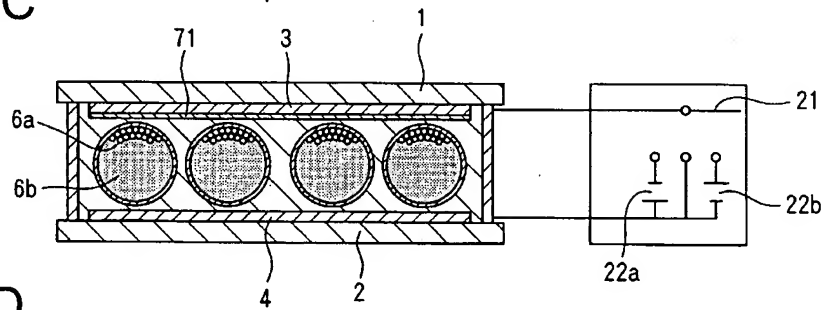
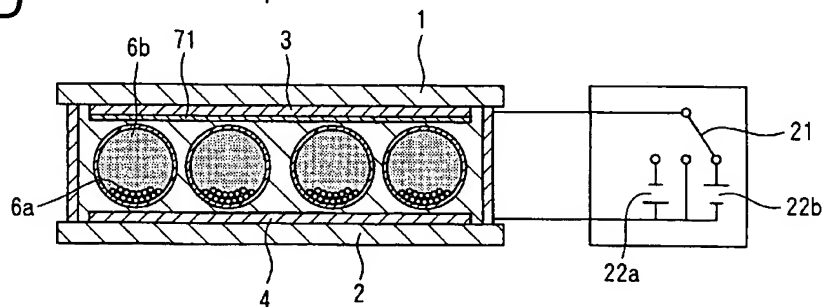


FIG.8D



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FIG.9

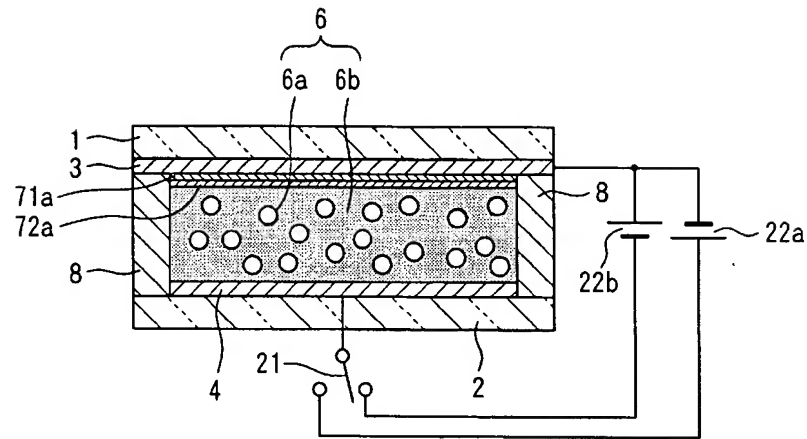
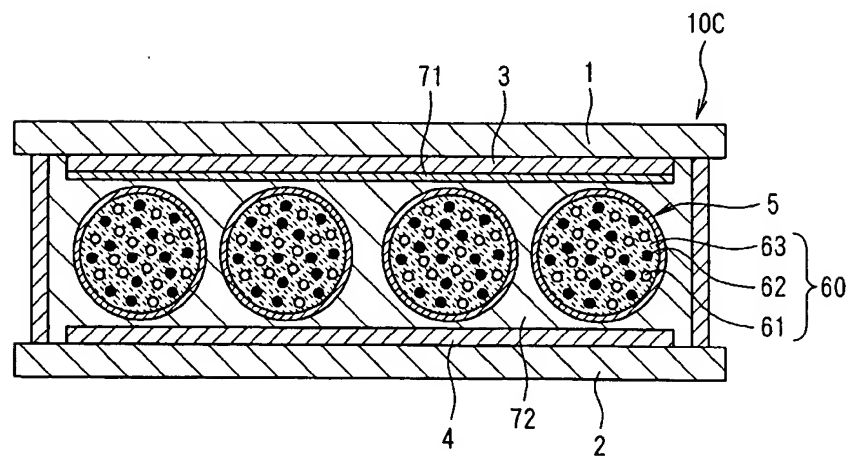


FIG.10



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FIG.11A

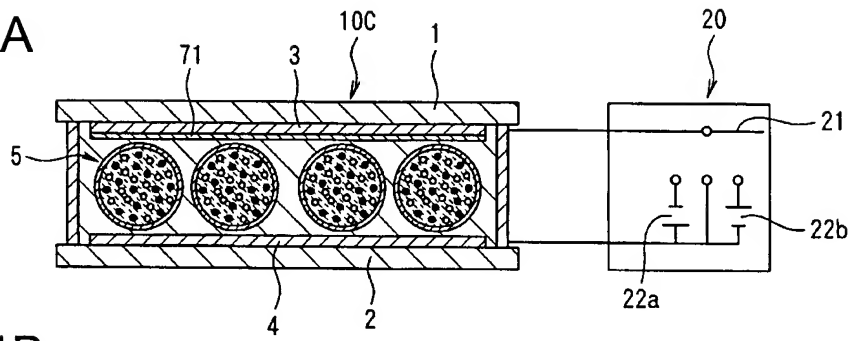


FIG.11B

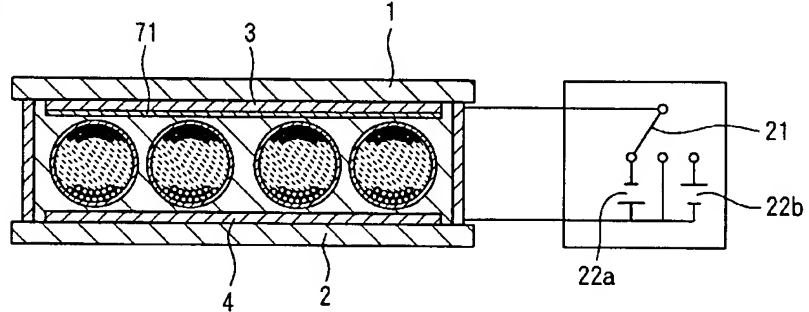


FIG.11C

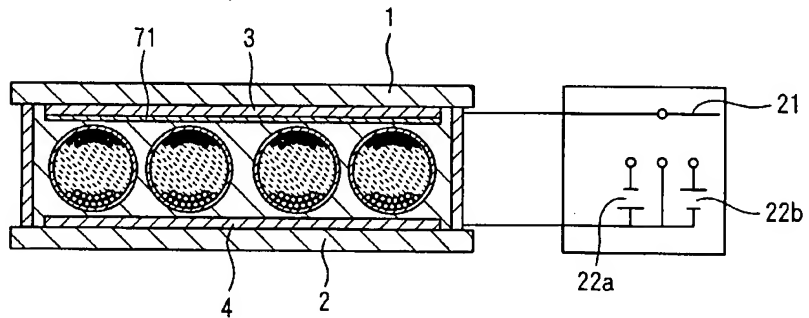
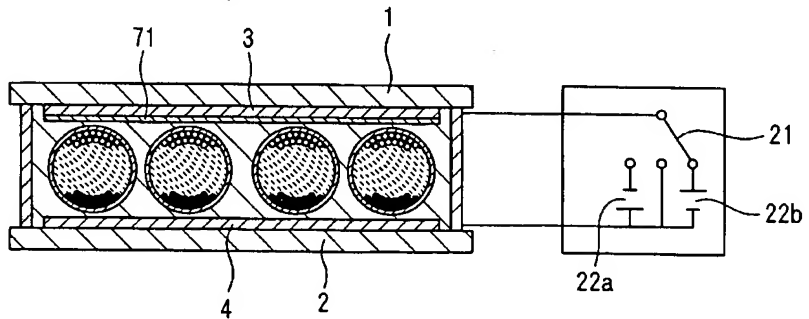
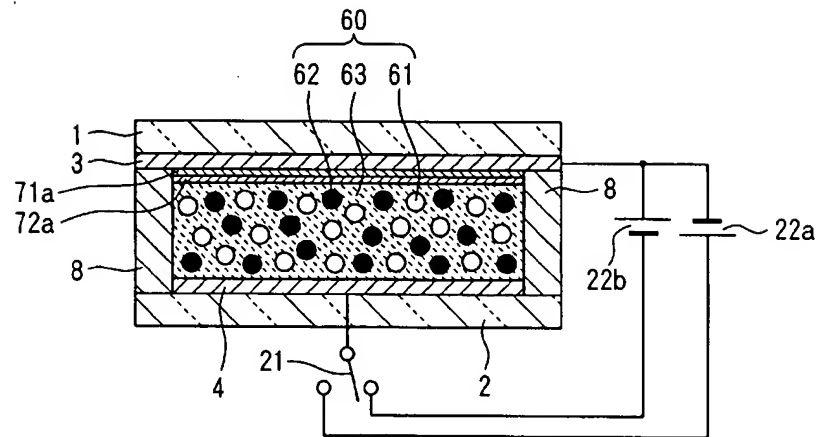


FIG.11D



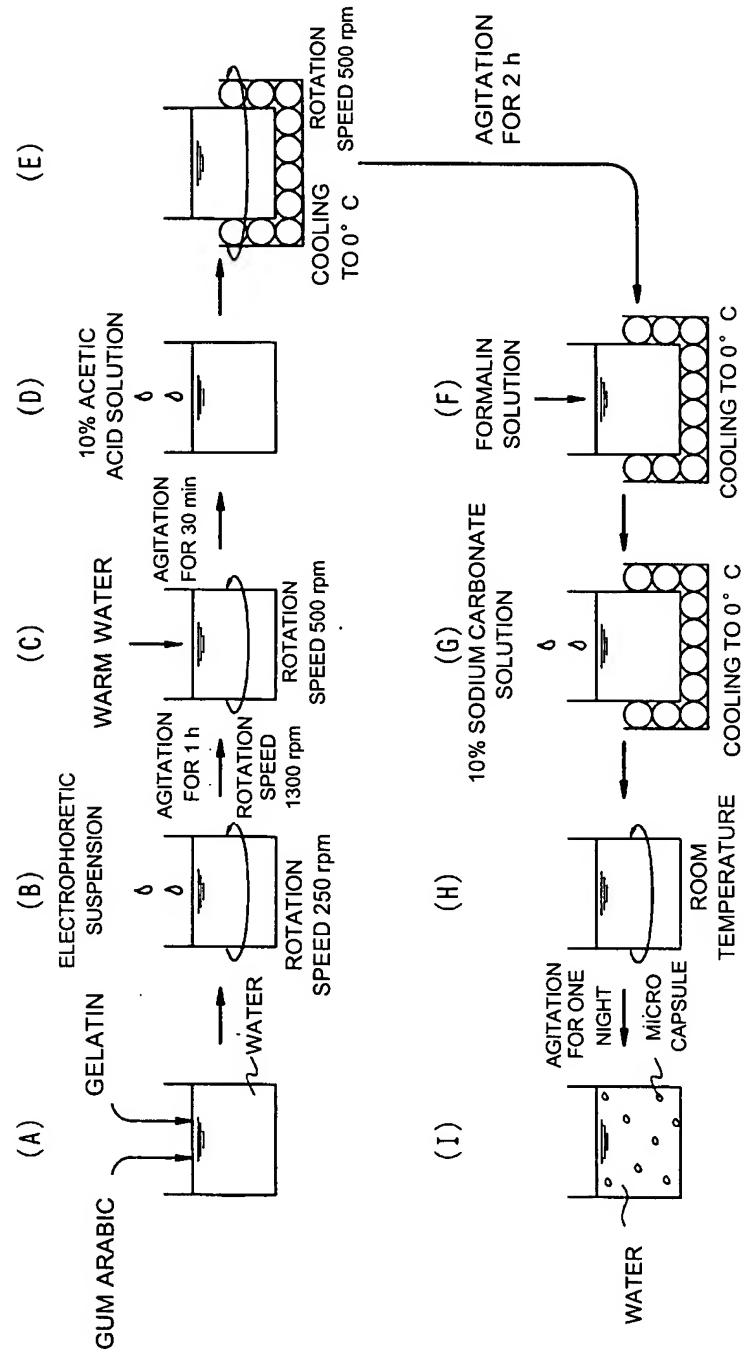
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FIG.12



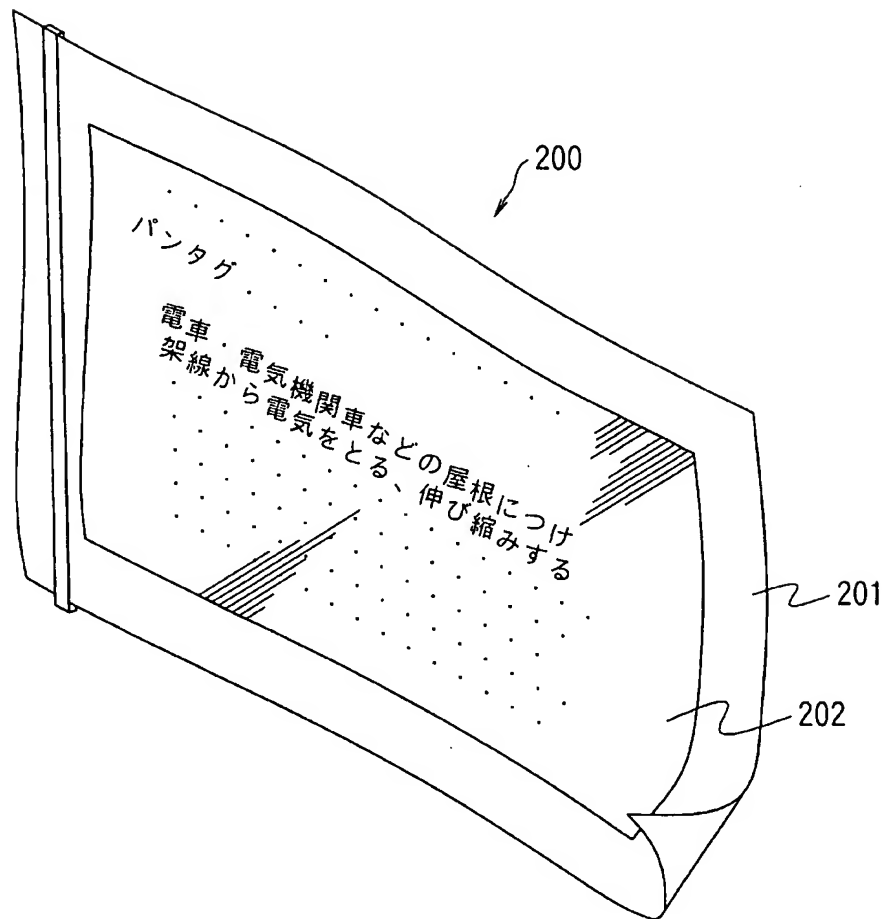
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FIG.13



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FIG.14



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FIG.15A

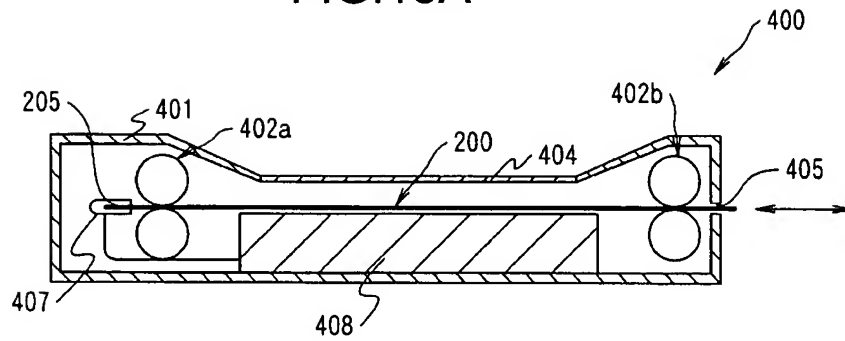
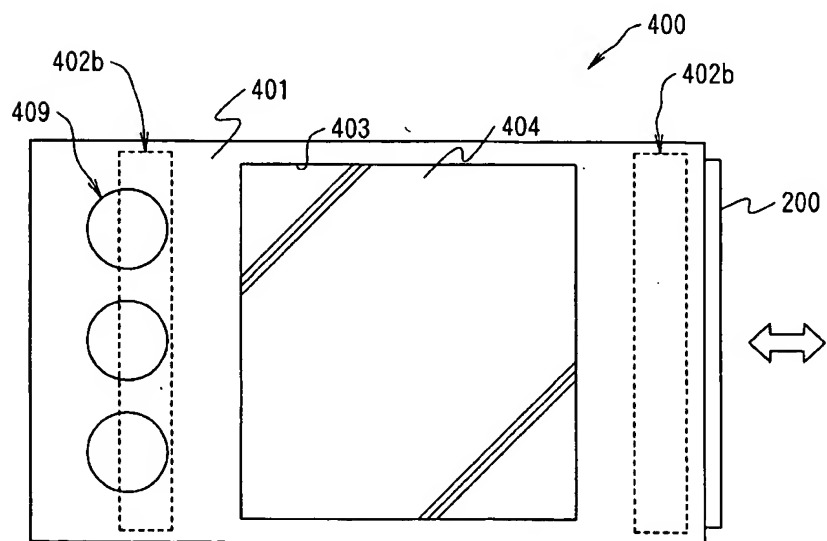
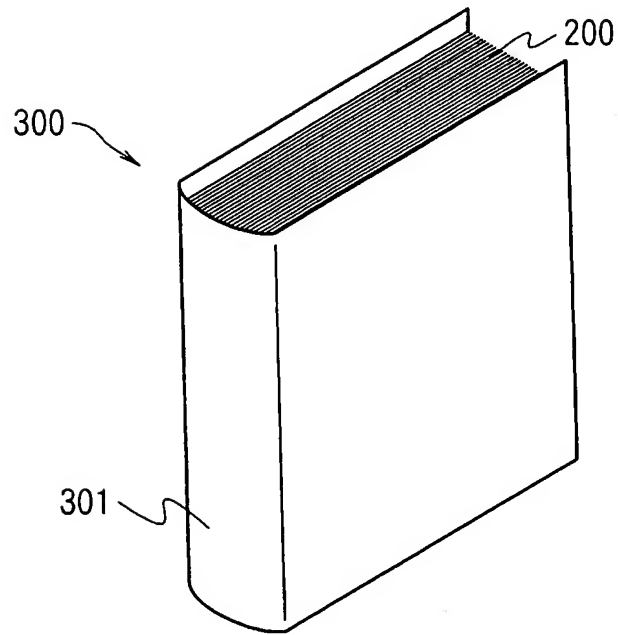


FIG.15B



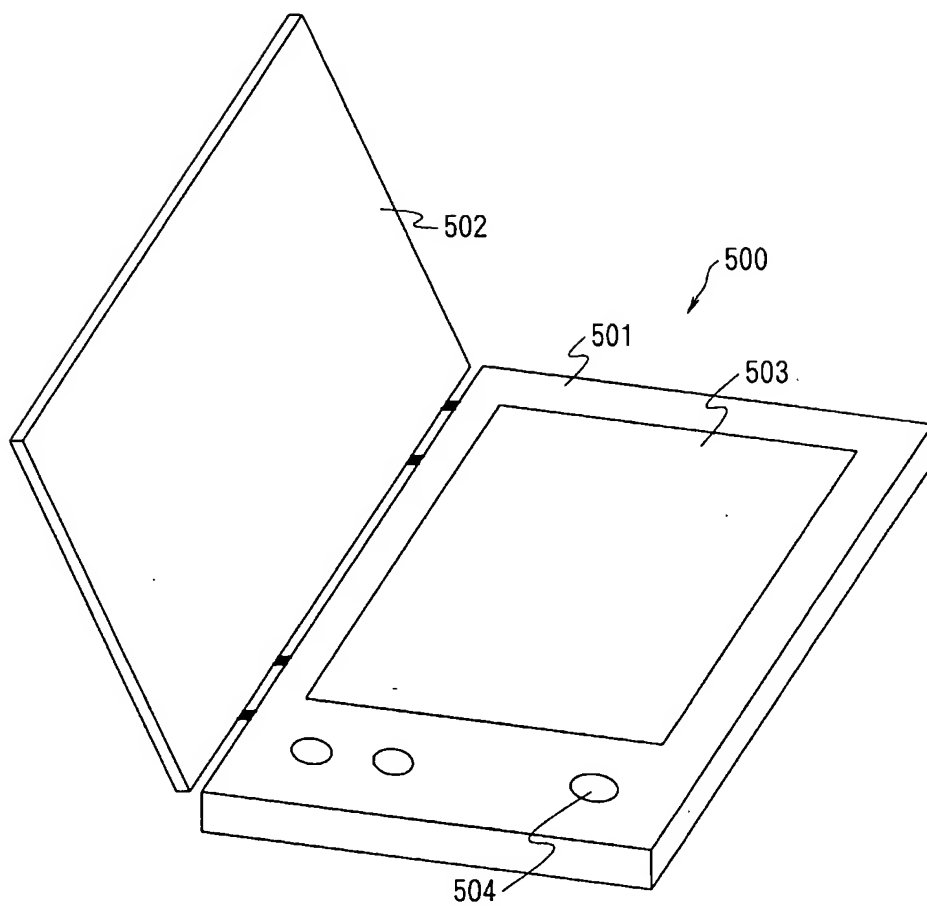
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FIG.16



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FIG.17



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FIG.18

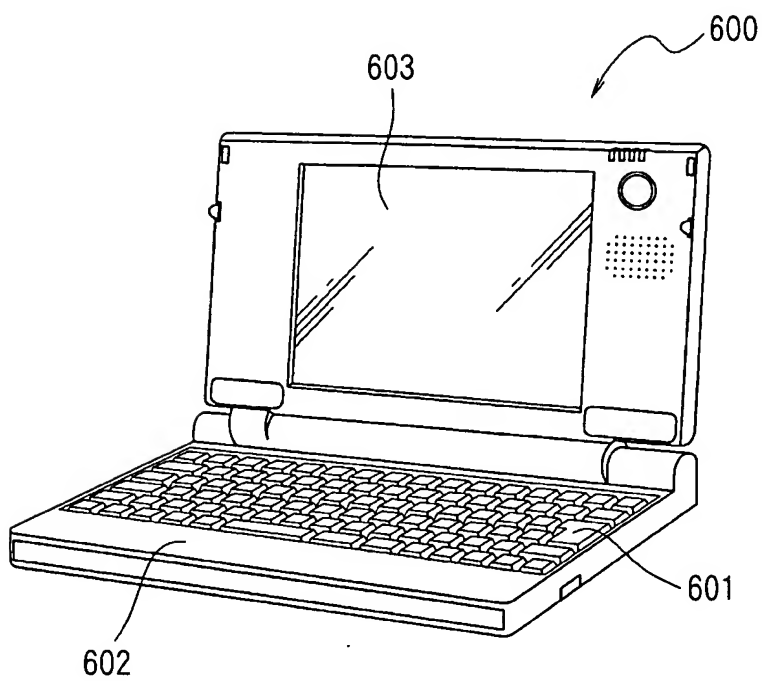
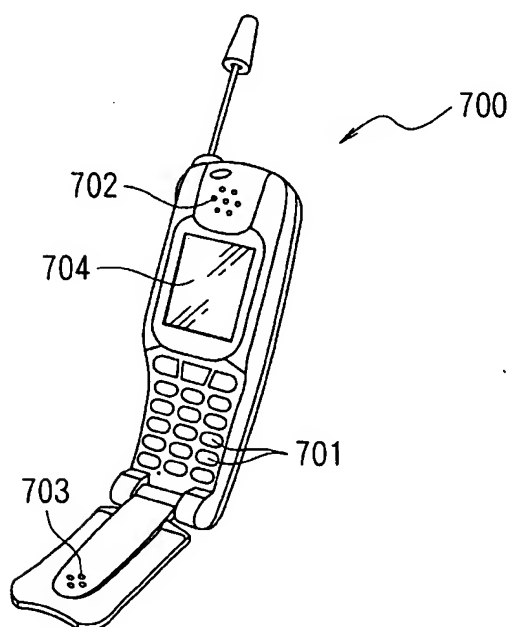
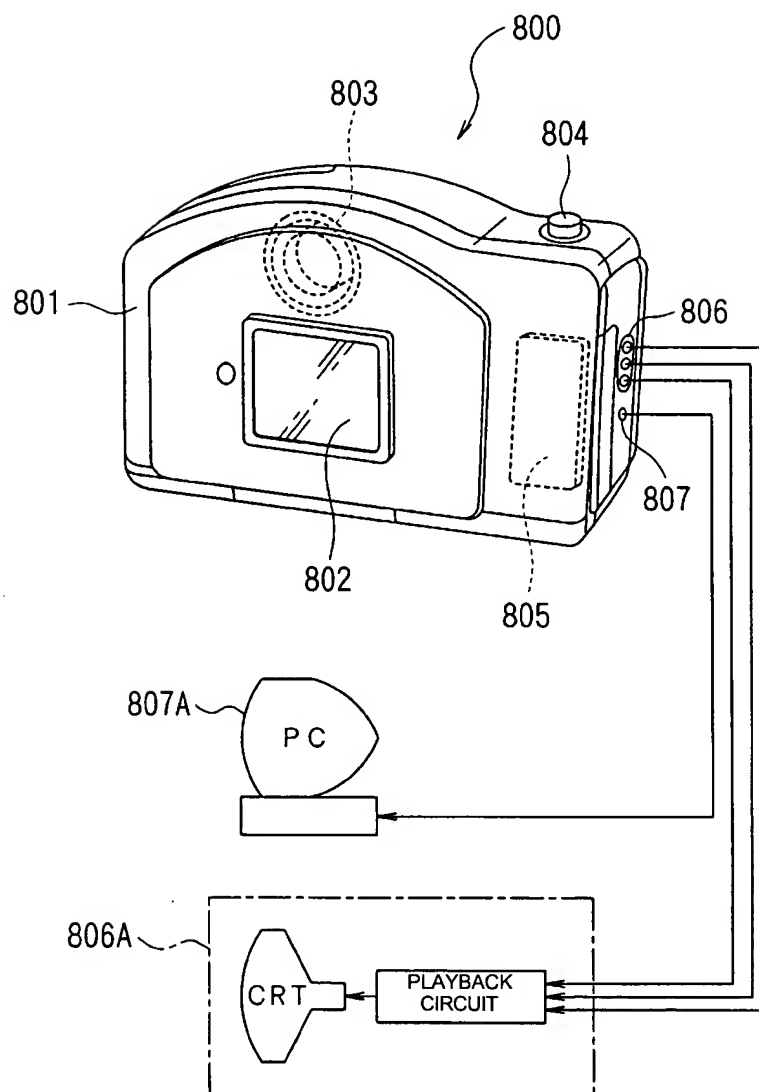


FIG.19



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FIG.20



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